

11-5

From: "Henry Porter" <PORTERHJ@dhec.sc.gov>
To: <Jsilotti@utah.gov>
Date: 8/5/03 2:27PM
Subject: Re: Requested radioactive waste site information

Age of site

Barnwell began accepting radioactive waste for disposal in 1971. It has operated continuously since that time.

Construction and structures

The waste is disposed of in trenches that are 25 to 30 feet deep. The dimensions for Class A trenches have typically been 100' X 1000', Class B/C trenches 50' x 1000' and slit trenches 15' x 1000'. Since 1996, all waste, with the exception of large components has been disposed of in concrete vaults placed in the trenches. Structures onsite include a site access building, maintenance shops, a sandblast facility, a trench wash down facility and a cask maintenance facility.

Rainfall and groundwater levels

Average rainfall is 47 inches per year
Groundwater ranges for 40' to 60' feet below ground surface.

Soil composition

Sand to a depth of 1' to 3'
Sandy clay to water table

Is there has been any release, if so how has the release been controlled or fixed

There is a tritium plume from the facility. The concentration have been controlled by the use of multi-layer caps over the trenches. Very small concentration of C14 have also been detected. The concentration of the tritium and C14 have not caused the facility to be out of compliance.

Any damage to the environment

The tritium plume is migrating from the facility to a nearby creek, however, concentration have not caused the facility to exceed the dose limits in the regulations.

Waste types accepted

Class A, B, & C

Please let me know if you and Bill need any other information.

Henry

